

SAT in Client/Server Environments

This subsection covers the following topics:

- Client/Server Processes Communication
 - Addressing
 - SATSRV Parameters
-

Client/Server Processes Communication

ESM products use the 'Advanced Communication Interface' (ACI) of the Entire Broker to communicate between client and server processes. Each service provided by one or more servers is uniquely identified by the attributes CLASS, SERVER and SERVICE as shown in the example below (extract from Entire Broker attribute file):

```
*  
* SERVICES NEEDED FOR NOM PRINT SERVER (MRS)  
*  
DEFAULTS = SERVICE  
  CONV-NONACT    = 30S  
  TRANSLATION    = SATTCHA  
  SERVER-NONACT  = 2M  
  CLASS=PrintClass,SERVER=PCMRSPrintServer,SERVICE=Print
```

You can find more information on the above in the appropriate **Entire Broker Documentation**.

Note:

The source of the translation table SATTCHA is delivered in the Entire Broker source library. For information on how to assemble and activate this translation, see the subsection **User-written Translation Routines** in the **section 1** of the **Entire Broker Administration Documentation**.

Addressing

In order for a client or server to address a service, the client or server must pass the above parameters to REGISTER or SEND. SAT encapsulates this addressing data by allowing the ESM product to address the parameter with a symbolic name. The parameters are stored in text members of the SYSSATU library and subdivided into sections.

Example

- If you specify a name in the following format (two tokens, separated by a period '.'), then the name contains both the name of the **text member** and the name of the **section**:

XXXXXXX.SSSSSS

where the first token, XXXXXXX, is the **text member name** and the second token, SSSSSS, the **section name**. For example, the name:

PCMRS.Printer

addresses the section Printer in the text member PCMRS.

- If the name consists of only one token, then this is assumed to be the section in the text member SATSRV. For example, the name:

PCMRSPrinter

addresses the section PCMRSPrinter in the text member SATSRV.

SATSRV Parameters

| Parameter | Meaning |
|--------------|--|
| WAIT-TIME | Corresponds to the parameter WAIT in the SDPA structure. ¹ |
| TYPE | Type of communication. Must always be ACI. |
| BROKER-ID | Corresponds to the parameter BROKER-ID specified in the Entire Broker attribute file and in the SDPA structure. ¹ |
| SERVER-CLASS | Corresponds to the parameter CLASS in the SDPA structure. ¹ |
| SERVER-NAME | Corresponds to the parameter SERVER in the SDPA structure. ¹ |
| SERVICE | Corresponds to the parameter SERVICE in the SDPA structure. ¹ |
| USER-ID | Corresponds to the parameter USER-ID in the SDPA structure. ¹ |

¹ For a description of the SDPA structure, refer to the subsection **The ACI Control Block** in the **Entire Broker Reference Documentation**.

Example: SATSRV Parameters

```
PCMRSPrinter SATSRV TYPE=ACI
      BROKER-ID=BKR034
      SERVER-CLASS=PrintClass
      SERVER-NAME=PCMRSPrintServer
      SERVICE=Print
      USER-ID=MRS
      WAIT-TIME=60S
```